



# **Engagement Skills Trainer 2000**

**(EST 2000)**

## **Basic Combat Training BRM Strategy**

# **BOTTOM LINE UP FRONT**

**EST 2000 is:**

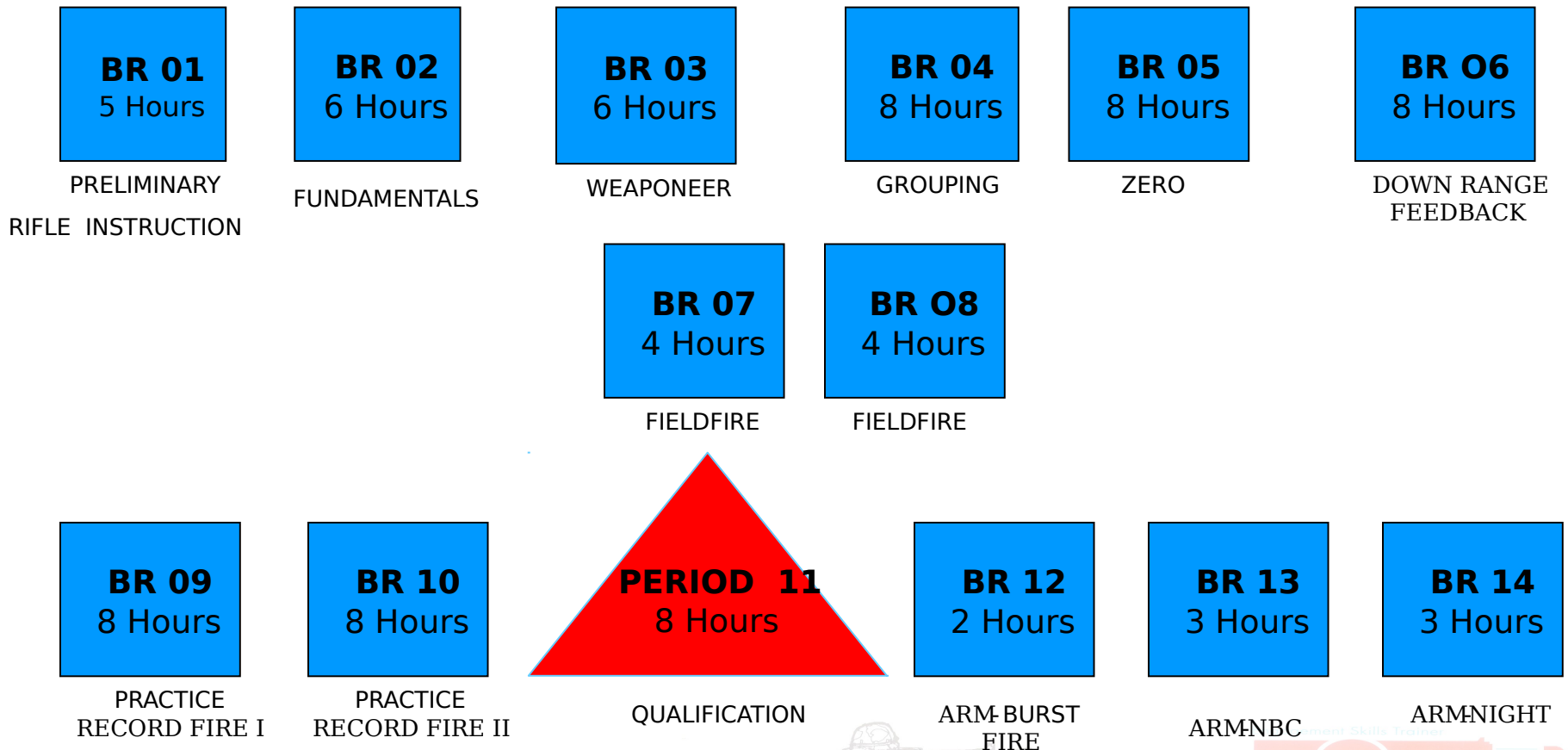
- **Most advanced/effective/proven simulation ... meets total Army requirements including IET.**
- **Cost-effective alternative to LMTS and NOPTTEL.**
- **IET BRM training strategy with integrated EST 2000 is defined ... sound & effective.**
- **Can be fielded to ATCs (Knox & Benning) in Oct 03**
- **If facilities remain tall pole, then ISO**



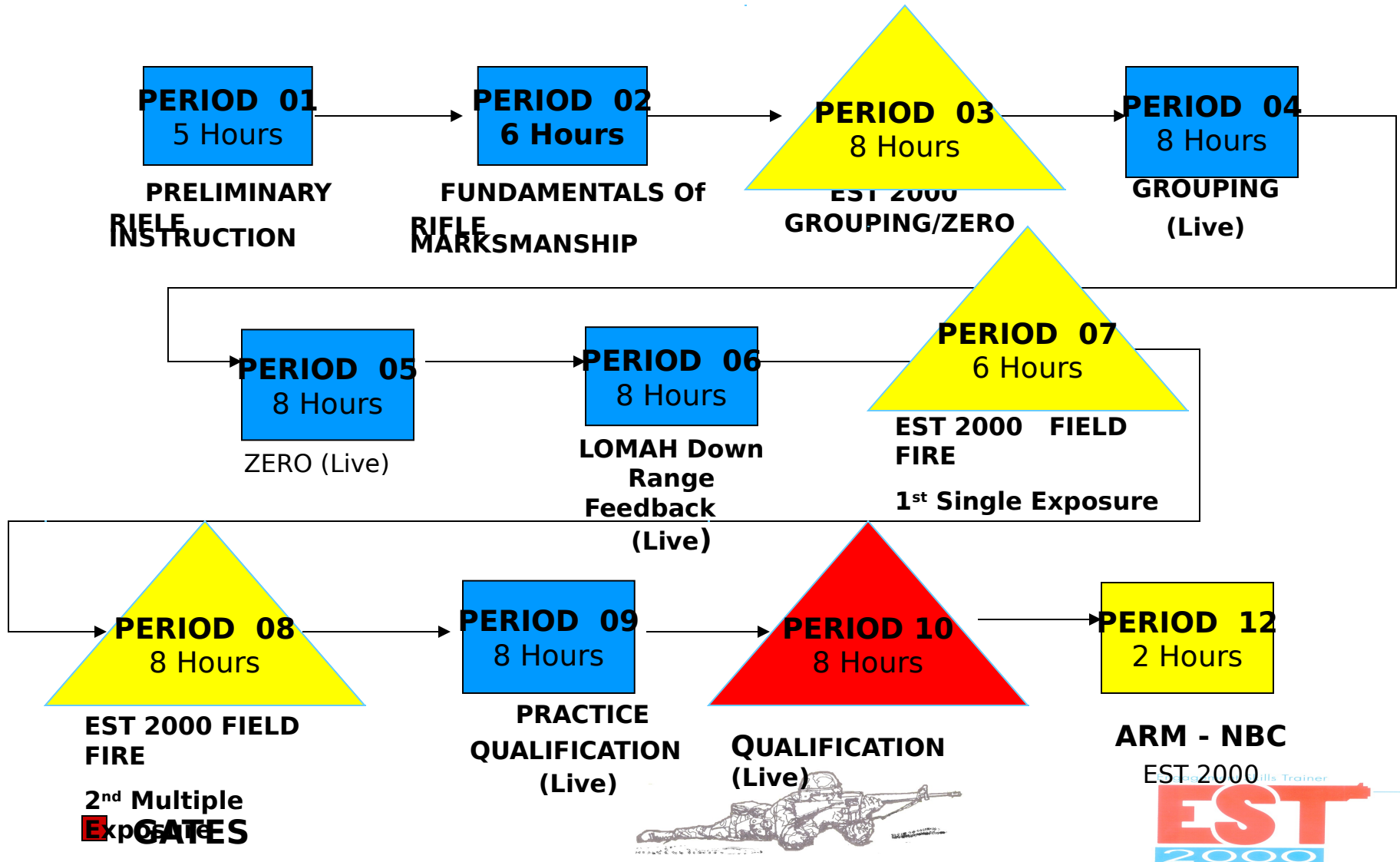
# Basic Combat Training

## Current BRM Strategy

### 81 Hours



# Basic Combat Training NEW BRM Strategy with EST 2000 75 Hours



# ATCs EST 2000 REQUIREMENTS

	<u>Benning</u>	<u>Jackson</u>	<u>Leonardwood</u>	<u>Knox</u>	<u>Sill</u>
BCT	9	24	9	6	6
OSUT	15		9(12)	9	6
SUBSYSTEMS	24	24	18 (21)	15	12

- 24 x 5-lane EST 2000s (subsystems) available Oct 03
- First 9 subsystems will go to Benning; 15 go to Knox
- Benning (9+15), Jackson (24), LW (18) (21), Sill (12) require EST facilities in FY 04/05 ... ISO containers can achieve facilities issues
- Total EST Container requirement is for 78 x 5-lane subsystems at \$3.9M





# REQUIREMENTS ARMY TRAINING CENTERS

		<u>JACKSON</u> <u>SILL</u>	<u>BENNING</u>	<u>LEONARD WOOD</u>	<u>KNOX</u>
BCT BNs					
2	2	8	3	3	
OSUT BNs		0	5	3	(4)
Total Bns	2	8	8	6	(7)
5	4				

		<u>JACKSON</u> <u>SILL</u>	<u>BENNING</u>	<u>LEONARD WOOD</u>	<u>KNOX</u>
OCT 03 (FY04)		0	9	0	
15	0				
OCT 04 (FY05)		12	6	9	
0	9				
OCT 05 (FY06)		12	9	9	(12)
Total Fielded	10	24	24	18	(24)
15	12				



# PROPOSED FIELDING PLAN

		FY03												FY04												FY05																		
		1	2	3	4									1	2	3	4									1	2	3	4															
		O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S							
LOT IV					A																																							
(60 Subsystems)					▲									▲																														
(20 Reserve, 20 National Guard, 20 Active)																																												
LOT V																																												
(239 Subsystems)																																												

- 93 ATC Subsystems can be procured over FY03 and FY04
- 78 ATC Subsystems can be placed in 26 Deployable Containers (15 Subsystems will be housed in fixed facilities at Ft Knox)
- OPA Funds required/ OMA mix could be utilized



# ***EST 2000 DEPLOYABLE CONTAINER***

## **Container Cost Estimates:**

- 5 Lane Prototype = **\$60K**
- 5 Lane Configuration in Production = **\$50K**
- 10/ 15 Lane Configuration in Production = **\$140K**
  - \* 26 (10/ 15 Lane Configuration Containers) x \$140K = **\$3,640M**
  - \* 26 (Site Preparation) x 10K = **\$260K**
  - \* Total EST 2000 Requirement = **\$3.9M**

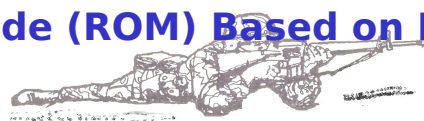
**(UFR)**

### **2 Container Configurations:**

- 5 Lane Deployable Container (Prototype Developed)  
= 20ft x 40ft footprint
- 10/ 15 Lane Container  
= 40ft x 52ft footprint

## **Notes:**

- Other Procurement Army (OPA) Funds & Operational Maintenance Army (OMA) mix
- PEO STRI/ PM GCTT Needs to Develop the Sustainment Requirement/ Profile
- Cost are a Rough Order of Magnitude (ROM) Based on Initial Contractor Discussions





# **EST 2000 DEPLOYABLE CONTAINER**

## **Recommendations:**

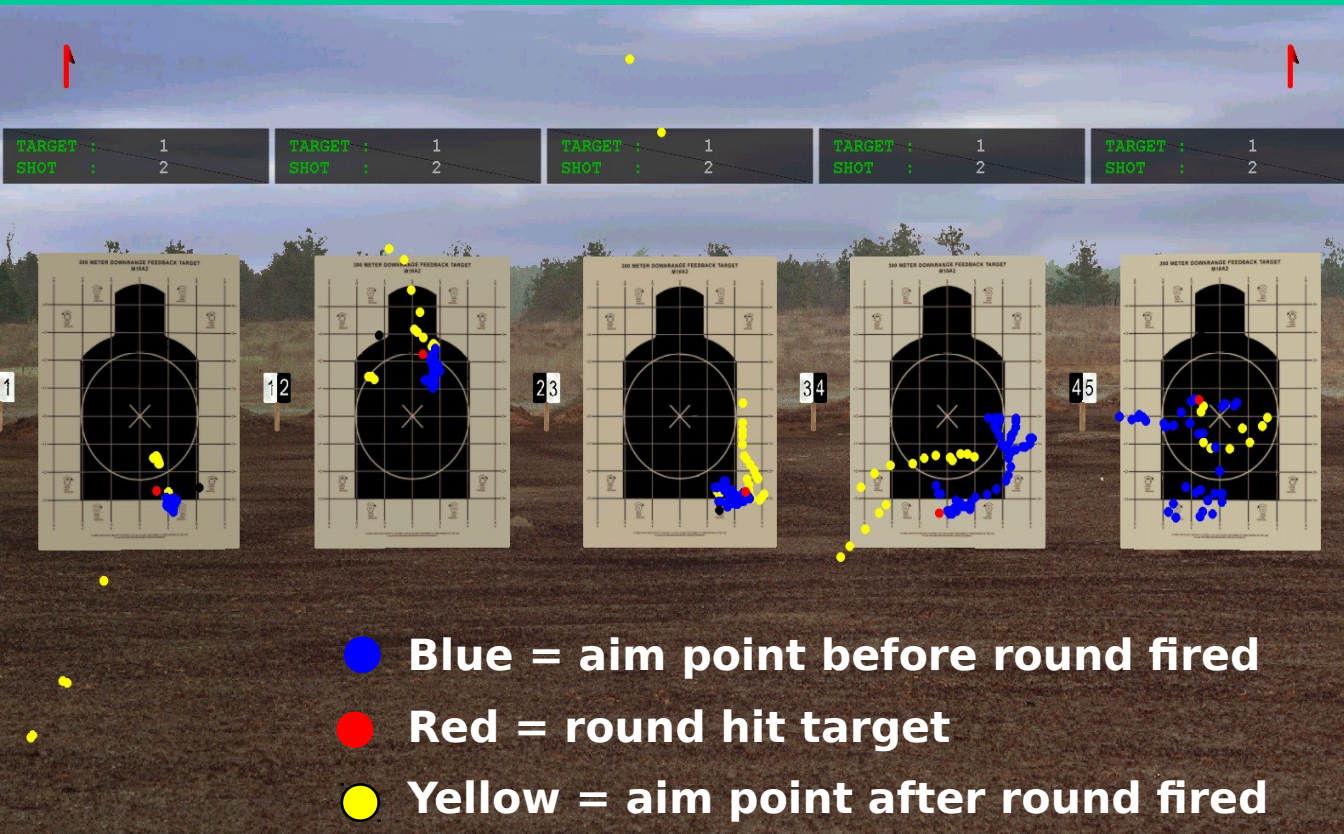
- Field the Army Training Centers the 10/ 15 Lane Configuration**

## **Deployable Container for EST 2000 Marksmanship Training Device:**

- Pursue as an EST 2000 Program Strategy the use of the Deployable Container as Either the Interim and/ or Long Term Solution to the MCA/ Facilities Requirement where Applicable**



# MARKSMANSHIP



Instructor ratio can be  
**1:5 - 1:15**

Trigger pressure and weapon cant recorded

Aim point trace

**System collects data to help instructor diagnose marksmanship problems**

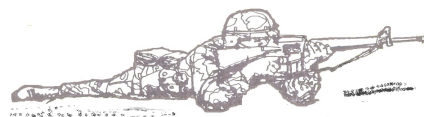
- Supports training of all BRM / ARM skills
- 209 Courses of Fire
- Post Fielding Training Effectiveness Analysis

Visual feedback to shooters at conclusion of training event



# CONCLUSION

- **IET BRM training strategy must transform to include simulations ... to remain sound & effective**
- **Integration of EST 2000 with integrated “gated” training strategy will:**
  - **Improve BRM skills & feedback**
  - **Reduce BRM training periods**
  - **Reduce ammunition**
  - **Reduce environmental impacts on ranges**
- **EST 2000 meets all Army requirements ... supports all Army standard courses of fire.**



# Course of Actions

- Tasks for Army Training Centers.
  - Confirm need for shelters, that is, fixed facilities are not available and will not accommodate EST 2000s.
  - Identify number of 5-, 10-, and 15-lane EST 2000 configurations that are required (see total requirement matrix below).
  - Identify minimum weapons required for each configuration. Priority is BRM POI immediate needs with spares.
  - Ensure response concurrence from ATC Commanding General.
- SUSPENSE: 3 February 2003
- Assumption: BCTs will get M16A2s only for their EST 2000s. OSUTs must determine any other weapons needed. An example of this is Fort Knox stated at the brief they would need M16A2s for BCT and a M16/M4 mix with M9s for OSUT.

